NOVEMBER/DECEMBER 2024

CSCA44 — INTERNET OF THINGS (SBS II)

Time : Three hours Maximum : 75 marks

SHANMUGA INDUSTRIES ARTS & SCIENCE COLLEGE LIBRARY

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define IoT.
2. Name the transport layer protocols.
3. What is M2M area network?
4. Recall the types of SCL.
5. Define RFID.
6. Mention the standardization bodies of WSNs.
7. List any two IoT API.
8. What is Arduino?
9. Define IoT API.
10. What is smart cities?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Describe about smart cities.

Or

(b) Discuss about IoT for logistics.

12. (a) Write a short note on OGC SWE standards.

Or

(b) Describe the M2M management functions.

13. (a) Explain about certified data standards.

Or

(b) Categorize the issues with IoT standardization.

14. (a) Sketch the Raspberry Pi board and explain.

Or

(b) Analyze about Linux on Raspberry Pi.

15. (a) Explain about smart grid.

Or

(b) Discuss in detail about asset management system.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain about the logical design of IoT in detail.

17. Elaborate ETSI M2M high level architecture with neat sketch.

18. Illustrate Zigbee protocol stack with its topology and architecture.

19. Explain about IoT physical devices and end point.

20. Describe about cloud computing for IoT.

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